

# Nicholas Coiner

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US Citizen residing in Cupertino, CA.

## Education & Certificates

- B.S in Computer Science from UCDavis GPA: 3.27    Graduated June 2024
- De Anza College Continuing Education January 2025 to Current
- A.S.T. in Computer Science from De Anza College Graduated June 2022
- Full Stack Developer Certificate from UCDavis Graduated September 2023
- Currently applying to Master's programs in Computer Science and AI

## Skills and Qualifications:

- **Languages:** C, C++, Zig, Rust, Python, JavaScript, HTML, CSS, SQL, MATLAB
- **Frameworks & Tools:** React, Node.js, ExpressJS, MongoDB, Three.js, Git, GitHub, GitLab
- **Concepts:** OOP, CI/CD, WebGPU, Reinforcement Learning, Evolutionary Algorithms, RLHF
- **Other:** Electronics, Serial Communication, Whisper, OpenAI API, VAD, Linux

## Relevant Work Experience

*Contract Software Engineer* *May 2025 to Current*  
*DataAnnotationTech*

- Written, graded and reviewed other engineers' **JavaScript** code bases as lead programmer.
- Performed **Reinforcement Learning** with **Human Feedback** for **fine-tuning** AI systems.
- Organized and created **Training Data Sets** and scored AI produced **Python** and **Rust** code.
- Created **Fine-Grained Criteria** for evaluating AI model responses.

*Assistant Programmer and QA Intern* *June 2014 to September 2016*  
*GPS Source (military defence contractor in Pueblo, Colorado)*

- Mostly focused on Quality Assurance for military-grade GPS products.
- Learned **Python** programming skills and cryptographic methods.
- Learned **C++** and wrote cross-platform device drivers.

## Project Experience

*AI Discord Chatbot (private repository)* *April 2025 to Current*

- Built an interactive chatbot using **Python**, **Javascript**, Discord **API**, and **Whisper** for real-time speech to text transcription.
- Used Voice Activity Detection (**VAD**) and **Voice Isolation** to support multi-user conversations.
- Designed a live 3D avatar viewer with **JavaScript** and **Three.js** to animate chatbot responses.
- Architected the system using multiple custom **Python** daemons for modularity.

*Novel NN Architecture (Master's Thesis track project)* *January 2025 to Current*

- Created a custom neural architecture simulation using **Zig**, **JavaScript**, and **WebGPU** compute shaders.
- Simulated billions of interconnected virtual neurons with signal-based tensor graphs.
- Developed training systems using **Python**-based reinforcement learning and evolutionary

algorithms.

- Engineered a lightweight frontend to visualize network activity in real-time.

#### *Custom OBD-II UART Serial Device and Terminal*

*June 2024 to August 2024*

- Designed and hand-built a custom vehicle diagnostics reader powered by the car battery.
- Wrote in the **C** language a UART serial interface to read OBD-II data from car ECUs.
- Developed a terminal-based dashboard to display live sensor data and error codes.

#### *UCDavis HCI App: Meetings ([Github](#))*

*January 2024 to March 2024*

- Developed a group scheduling tool using the **MERN** stack: **MongoDB**, **Express.js**, **React**, and **Node.js**
- Integrated the **Zoom API** to automatically create meetings between available users
- Used **Git** and **GitHub** for version control, and led the design of backend and frontend features

#### *Sudoku Shuffle ([Github](#))*

*July 2023 to September 2023*

- Built a Sudoku game site with a **React** frontend and **Node.js/Express** backend using **JavaScript**
- Connected third-party puzzle databases via **RESTful API** integration
- Participated in **Agile** development with a **Google PM**, using **CI/CD**, **Git**, and collaborative version control practices

### **Customer Service Experience**

#### *Whole Foods Team Member and*

*June 2018 to September 2018*

- Served as cashier, bagger, and floor support in a high-volume grocery environment.
- Delivered exceptional customer service, resolving issues quickly and professionally.
- Took initiative in managing task lists and supporting coordination of team schedules.
- Maintained cleanliness and safety in food handling and front-end stations.

#### *Chipotle Team Member*

*June 2018 to September 2018*

- Prepared fresh food on the burrito line, ensuring consistency and speed during peak hours.
- Trained in kitchen prep and opening/closing procedures (sauces, restocking, sanitization).
- Balanced front- and back-of-house responsibilities in a fast-paced setting.
- Collaborated closely with the team to ensure efficiency and food safety compliance.

#### *Panera Bread Cashier and Barista*

*June 2017 to September 2017*

- Operated point-of-sale systems and processed hundreds of daily transactions.
- Crafted coffee and espresso drinks while managing food orders and front-of-house duties.
- Received training and clearance in food safety, sanitation, and allergen handling.
- Provided friendly, efficient service and contributed to positive guest experience.